Claims

1. A downhole tool for collecting and retrieving junk from a well bore, the tool comprising a cylindrical body attachable in a work string, a multi-faceted surface arranged at an end of the body for contacting with and breaking up junk and a plurality of inlet ports through which the broken up junk passes into a trap for collection.

2. A downhole tool as claimed in Claim 1 wherein the multi-faceted surface comprises a plurality of projections, each projection being located between adjacent inlet ports.

3. A downhole tool as claimed in Claim 2 wherein the projections each include a plurality of tungsten carbide coated surfaces.

4. A downhole tool as claimed in any preceding Claim wherein the tool further includes a sleeve located around the body, the sleeve including filter means for filtering debris from fluid passing there through.

5. A downhole tool as claimed in Claim 4 wherein a trap is provided in an annular space between the body and the sleeve.

6. A downhole tool as claimed in any preceding Claim wherein the ports have a flow path parallel to a longitudinal axis of the tool.

7. A downhole tool as claimed in any preceding Claim wherein each inlet port includes a valve.

8. A downhole tool as claimed in any one of Claims 4 to 7 wherein the tool includes a throat, the throat being located adjacent to the projections and having a diameter narrower than a diameter of the sleeve.

9. A downhole tool as claimed in any preceding Claim wherein the cylindrical body includes an axial bore to permit fluid flow through the work string.

10. A downhole tool as claimed in Claim 8 wherein the tool includes one or more milling elements located adjacent the throat and distal to the inlet ports.

11. A method of collecting and retrieving junk within a well bore, comprising the steps:

(e) providing a multi-faceted contact surface on a work string, the surface including a plurality of inlet ports;
(f) breaking up large pieces of junk by contact with the surface;
(g) collecting the broken-up junk through the inlet ports; and
(h) storing the broken-up junk in a trap adjacent the inlet ports.

12. A method as claimed in Claim 11 wherein the method may include the steps of providing a mill ahead of the surface and jetting milled junk from the mill towards the inlet ports.

13. A method as claimed in Claim 11 or Claim 12 wherein the method includes the step of operating one or more valves at each inlet port to prevent the broken-up junk from exiting the trap.